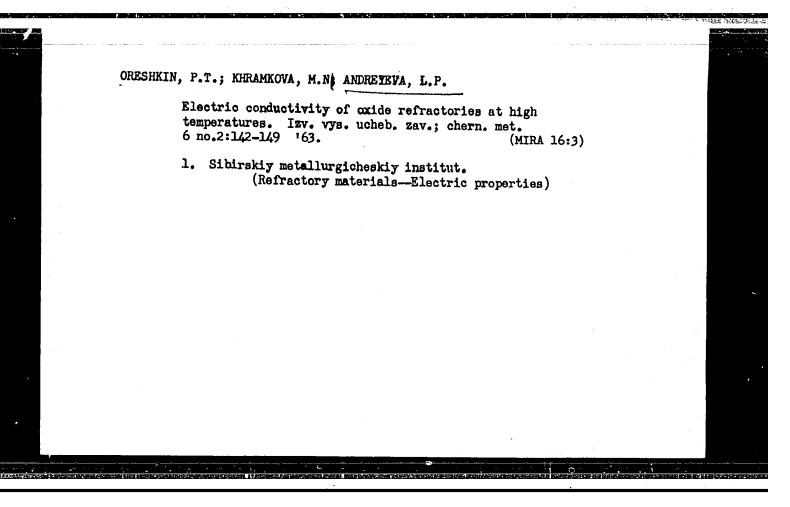
ORFSHKIN, P.T.; ANDREYEVA, L.P.

Relaxation effects of electroconductivity in industrial refractories at high temperatures. Izv. vys. ucheb. zav.; fiz. 8 no.1:155-161 '65. (MIRA 18:3)

1. Sibirskiy metallurgicheskiy institut imeni Ordzhonikidze.



VISHLYAKOVA, Ye.S., inzh.; RUMYANTSEVA, N.F., inzh.; BORONICHEV, G.A., inzh.; PITINOVA, L.V., inzh.; PETRUNIN, N.I., inzh.; MESKIN, I.M., inzh.; ANDREYEVA, L.P., inzh.; BISHENKEVICH, G.V., inzh.; RYABININA, A.I., inzh.; MOSHNIN, N.S., red. gazety; KOMKOV, A.I., otv. red.; YUNITSKIY, V.P., red.; FLIGEL'MAN, S.M., red.; ROZHDAYKINA, V., tekhn. red.

[Kalinin Artificial Fiber Combine] Kalininskii kombinat iskustvennego volokna. Kalinin, Kalininskoe knizhnee izd-vo, 1960. 92 p. (MIRA 15:8)

1. Kalininskiy kombinat iskusstvennogo volokna (for all except Komkov, Yunitskiy, Fligel'man, Rozhdaykina).

(Kalinin---Textile fibers, Synthetic)

ANDREYEVA, L.P.; GEL'D, P.V.

Coefficients of thermal expansion and modulus of elasticity in iron silicides. Izv. vys. ucheb. zav.; chern. met. 8 no.2:111-117 '65. (MIRA 18:2)

1. Ural'skiy politekhnicheskiy institut.

	. 5503665 EWT(a) IJP(a) ACCESSION NR: AT5010202 UR/3043/65/000/003/0061/0088	9E
- 1	ACCESSION NR.	
1	AUTHOR: Andreyeva, L. P.	
	TITLE: Concerning the practical application of the orthogonal power-series method	-) I
١,	SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 3, 1965. Vychislitel'nyye metody i programmirovaniye (Computing methods and programming),	
	TOPIC TAGS: power series method, numerical calculation, matrix diagonalization, subprogram, computer programming	
1	ABSTRACT: The author describes a set of standard subprograms intended for the	18.7 C
	solution of the complete eigenvalue problem for real non-singular matrices up to	
1	order 38 inclusive. The set consists of three subprograms, each of which is standard and can be used independently in the presence of available information.	
	The computation algorithm realized by the subprograms is based on the power-series	
	method. Each subprogram is described and the use of subprograms is illustrated	
	with examples of the diagonalization of a 10-th order matrix, the determination of the eigenvalues and eigenvectors of a 14-th order matrix, the determination of the	
		etroj

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	ACCESSION NR: AT5010202		
	roots of a polynomial, and the reduction of a matrix of 16-th order with all com-		
	plex roots to a quasi-triangular form with diagonal second-order cells. Orig. art.		
	has: 14 formulas and 6-tables.		
	ASSOCIATION: Vychislitel'nyy tsentr Moskovskogo universiteta (Computation Center,		
	Moscow University)		7.
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ANDREYEVA, L.P.			
Service of the servic	work practices of the brigades of com	mmunist labor	
of the Kal	inin Combine. Khim. volok. no.1:26-2	27 '65. (MIRA 18:2)	
l. Kalinins	kiy kombinat iskusstvennogo volokna.	(MINA 1612)	
			.,

BOGUN, A.F.; RUSNAK, N.T.; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhn.red.

[Organization and mechanization of docking operations]
Opyt organizatsii i mekhanizatsii dokovykh rabot. Moskva.
Izd-vo "Morskoi transport," 1959. 100 p. (MIRA 13:2)
(Ships--Maintenance and repair) (Dry docks)

CHUMACHENKO, Ivan Ivanovich; SKOBELING, L.V., red.; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhn.red.

[Internal combustion marine engines] Sudovye dvigateli vnutrennego sgoraniia. Izd.2., perer. i dop. Moskva, Izd-vo "Morskoi transport," (MIRA 14:3)

(Marine engines) (Gas and oil engines)

CHUMACHENKO, Ivan Ivanovich; SKOBELING, L.V., red.; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhn, red.

[Marine internal-combustion engines] Sudovve dvigateli vmutrennego sgoraniia. Izd.2. perer. i dop. Moskva, Izd-vo "Morksoi transport," 1960. 675 p. (MIRA 14:7)

SUSHKOV, Boris Borisovich; ANDREYEVA, L.S., red.; TIKHONOVA, Ye.A., tekhn. red.

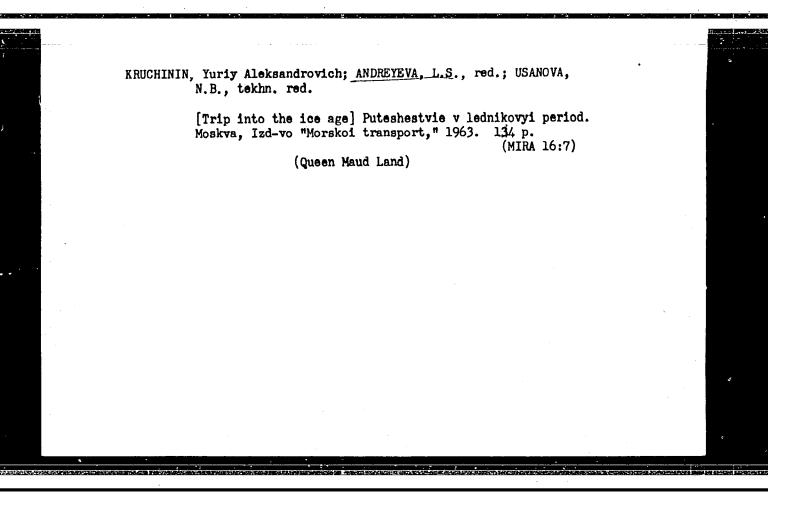
[Marine separators and shore installations for separating water from petroleum products] Sudowye separatory i beregovye ustanovki dlia otdeleniia vody ot nefteproduktov. Moskva, Izd-vo "Morskou transport," 1961. 136 p. (MIRA 14:10)

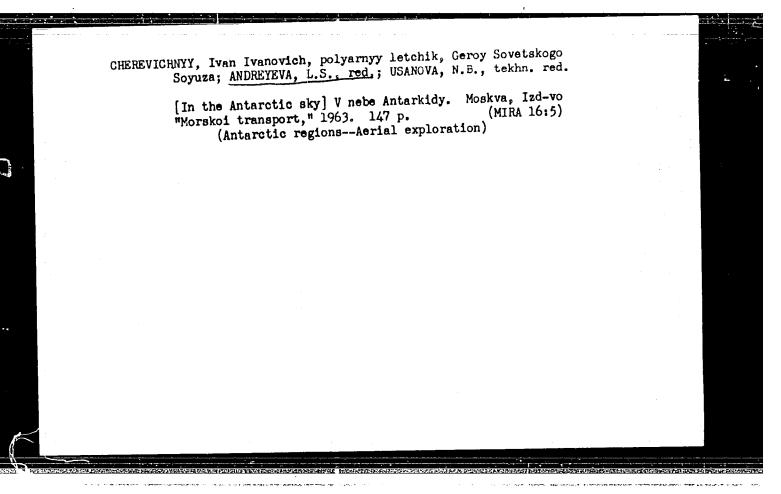
(Oil pollution of rivers, harbors, etc.)

(Separators (Machines))

EL'TSOV, Stepan Petrovich; NOVIKOV, Teodor Nikitovich; NEDZVEDSKIY, Pavel Ivanovich; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhn. red.,

[Working time and rest periods of the workers of marine transportation] Rabochee vremia i vremia otdykha rabotnikov morskogo transporta. Moskva, Izd-vo "Morskoi transport," 1961.
174 p. (MIRA 15:8)





ITSKOVICH, Yuriy Leonidovich; SKOBELING, L.V., red.; ANDREYEVA, L.S., red.

下四年的祖籍,特别是被提供的工程。 100% 的现在分词使用现的现在分词,但对于

[Electric drives on ships] Sudovye elektricheskie privody. Moskva, Izd-vo "Morskoi transport," 1903. 583 p. (MIRA 17:5)

KUROPATKIN, Petr Vasil'yevich; ANDREYEVA, L.S., red.; SKOBELING, L.V., red.

[Automation of electric ship propulsion systems] Avtomatizatsiia grobnykh elektricheskikh ustanovok. Moskva, Transport, 1964. 202 p. (MIRA 17:9)

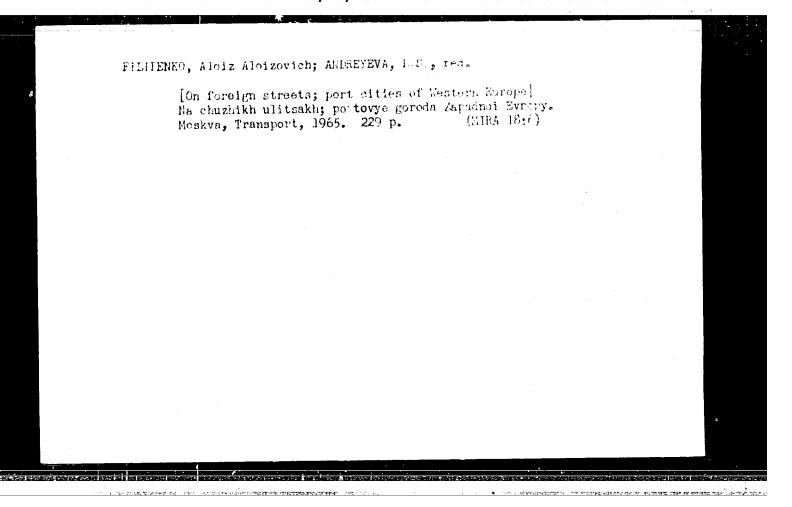
BROYTMAN, A.A.; DEREVICH, V.A.; SEDOR, A.M.; ANDREYEVA, L.S., red.; SKOBELING, L.V., red.

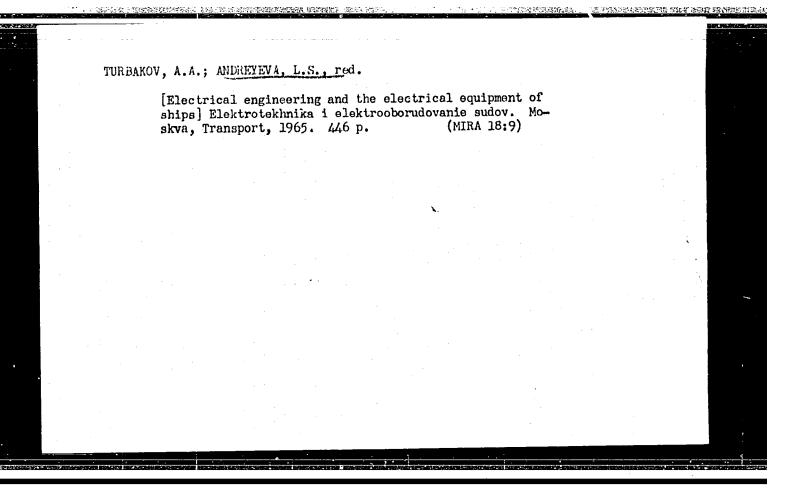
[Load-hoisting machines and arrangements on ships] Sudovye gruzopod manye mashiny i ustroistva. Moakva, Transport.

1964. 298 p. (MIRA 17:12)

SHUBINSKIY Aleksandr Iosifovich; KABALOV, Yuriy Nikolayevich;
ANDREYEVA, L.S., red.; ZAREZIN, I.V., red.

[Electrician in harbor mechanization] Elektromenter
portovoi mekhanizatsii. Koskva, Transport, 1965. 183 p.
(MIRA 18:9)





BARTOSHEVICH, Ye.N.; TSUKER, M.B.; LESHCHINSKAYA, Ye.V.; SOKOLOVA, I.S.; MARTYNENKO, I.N.; ANDREYEVA, L.S.; ASHMARINA, Ye.Ye.

Poliomyelitislike paralytic diseases in children inoculated with live Sabin vaccine. Vest. AMN SSSR 18 no.6:16-21 '63. (MIRA 17:1)

SYCHEV, Konstantin Arsent'yevich; ANDREYEVA, L.S., red.; LAVRENOVA, N.B., tekhm. red.

[On a drifting ice floe] Na dreifuiushchem ledianom ostrove, Moskva, Izd-vo "Morskoi transport," 1961. 112 p. (MIRA 14:12)

(Arctic regions—Russian exploration)

MAKSIMOV, Ivan Georgiyevich; FOZNYAKOVA, Galina Yur'yevna; ANDREYEVA,
L.S., red.; LAVRENOVA, N.B., tekhm. red.

[Workdays in a large port] Budni bol'shogo porta. Moskva, Izdvo "Morskoi transport," 1961. 38 p. (MIRA 14:12)

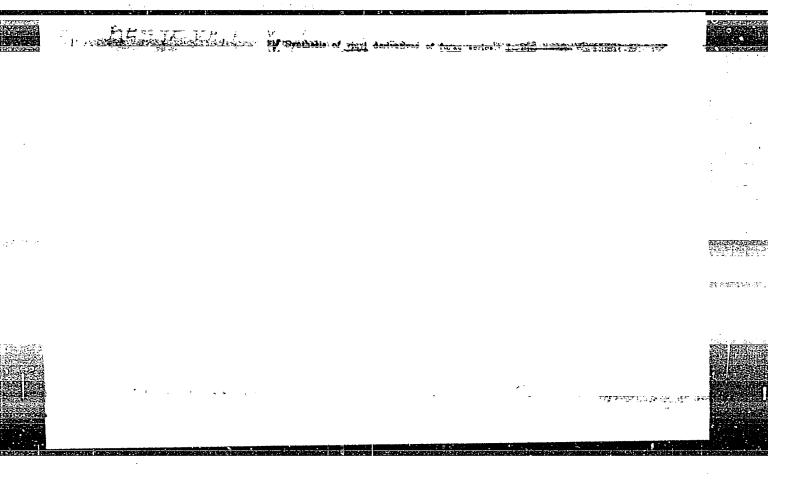
(Leningrad—Harbor) (Cargo handling)

ANDREYEVA, L.S. Introduce public control in building schoolhouses. Sel'.stroi. 14 no.8:4-5 Ag '59. (MIRA 12:12) 1. Zaveduyushchiy Moskovskim oblastnym otdelom narodnogo obrazovaniya. (Schoolhouses)

ANDREYEVA, L. V.

Andreyeva, L. V.-"The air-sterm method of burning out coke in tube furnaces," In the symposium: Nauch. reboty studentov gorno-metallurg. in-tov Moskvy, Moscow, 1949, p. 38-42

S0: U-h 3h, 20 Oct 53, (Letopis 'Zhurnel 'nykh Statey, No. 16, 1949).



KONYUKHOVA, L.I., inzh.; SUKHANOVA, T.A., inzh.; ANDREYEVA, L.V., inzh.

Methodology for calculating res material expenditure for knit

outerwear garment pieces. Nauch.-issl.trudy VNIITP no.4:71-117 163. (MIRA 17:4)

SARANCHA, Ye.T.; ABROSIMOVA, A.M.; ANDREYEVA, L.V.

Production of concentrated liquid ammoniate salts of carbon dioxide based on ammonium carbonate and urea. Khim. prom. 41 no.5:383-384 My '65. (MIRA 18:6)

ANDREYEVA, L. Ye.

"Calculation for the Rigidity of Diaphragms and Diaphragm Boxes." Sub 17 Sep 51, Moscow Order of the Labor Red Banner Higher Technical School imeni Bauman.

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ANDREYEVA, L. Ye., kandidat tekhnicheskikh nauk.

Computation of serrate profiled membranes; rigidity calculation. [Trudy]
(MLHA 6:6)
MVTU no.16:55-75 '52.

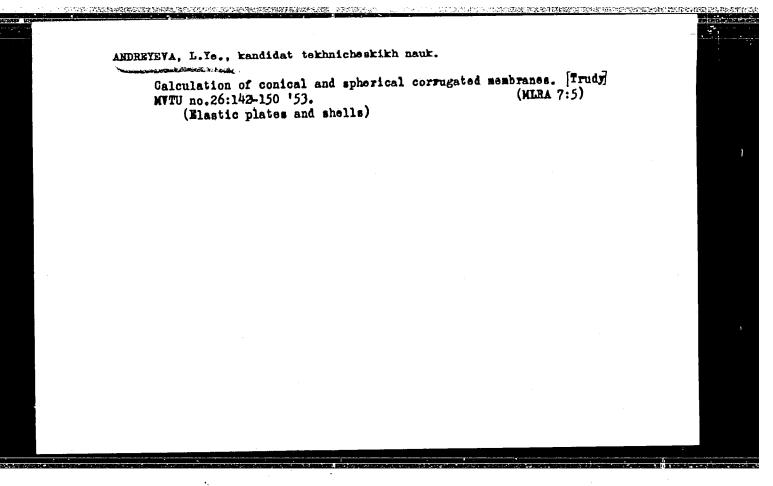
(Elastic plates and shells)

Computation of membranes with linear characteristics under pressure. [Trudy]
MVTU no.16:76-89 '52.

(Elastic plates and shells)

Calculation of sloped trapezoidal corrugated membranes. [Trudy] NYTU no.26:125-141 '53. (NERA 7:5)

(Elastic plates and shells)



ANDREYEVA, L.Ye. (Moscow)

Calculations concerning corrugated diaphragms considering them as anisotropic plates. Inzh.sbor. no.21:128-141 '55. (MLRA 8:11)

(Elastic plates and shells)

ANIREYEVA, L.Ye., kandidat tekhnicheskikh nauk, dotsent.

Calculation of corrugated diaphragms. [Trudy] MYTU no.46:100-124

155. (Blastic plates and shells) (MIRA 9:4)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410004-0"

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ANDREYEVA, L.Ye.

Calculating corrugated diaphragm characteristics. Priborostroenie no.3:11-17 Mr '56. (MLRA 9:8)

(Elastic plates and shells)

ANDREYEVA, L.Ye., dots., kand.tekhn.nauk

Determining characteristics and effective areas of corrugated membranes with rigid centers. Nauch.dokl.vys.shkoly; mash.i prib, no.1:218-227 58. (MIRA 12:1)

1. Predstavleno kafedroy "Soprotivleniye materialov" Moskovskogo vysshego tekhnicheskogo uchilishcha imeni N.E. Baumana. (Elastic plates and shells)

ANDREYEVA, L.Ye.; FEODOS'YEV, V.I., doktor tekhn. nauk, prof., red.;
FRIDIENDER, G.O., doktor tekhn.nauk, retsenzent; AKIMUVA,
A.G., red. izd-va; EL'KIND, V.D., tekhn. red.

[Elastic elements of instruments]Uprugie elementy priborov. Pod red. V.I.Feodos'eva. Moskva, Mashgiz, 1962. 254 p.

(MIRA 15:9)

(Measuring instruments)

AGAMIROV, V.L., kand. tekhn. nauk; AMEL'YANCHIK, A.V., inzh.;

ANDREYEVA, L.Ye., kand. tekhn. nauk; BIDERMAN, V.L., doktor

tekhn. nauk; BOYARSHINOV, S.V., kand. tekhn. nauk; VOL'MIR,

A.S., prof., doktor tekhn. nauk; DIMENTHERG, F.M., doktor

tekhn. nauk; KOSTYUK, A.G., kand. tekhn. nauk; MAKUSHIN, V.M.,

kand. tekhn. nauk; MASLOV, G.S., kand. tekhn. nauk; MALININ,

N.N., prof., doktor tekhn. nauk; PONOMAREV, S.D., prof. doktor

tekhn. nauk; PRIGOROVSKIY, N.I., prof., doktor tekhn. nauk;

SERENSEN, S.V., akademik; STEPANOVA, V.S., inzh.; STRELYAYEV,

V.S., inzh.; TRAPEZIN, I.I., prof., doktor tekhn. nauk;

UMANSKIY, A.A., prof., doktor tekhn. nauk; FEODOS'YEV, V.I.,

prof., doktor tekhn. nauk; SHATALOV, K.T., doktor tekhn.nauk;

YUMATOV, V.P., kand. tekhn. nauk; BLAGOSKLONOVA, N.Yu., red.

izd-va; YEVSTRAT'YEV, A.I., red. izd-va; SOKOLOVA, T.F.,

tekhn. red.

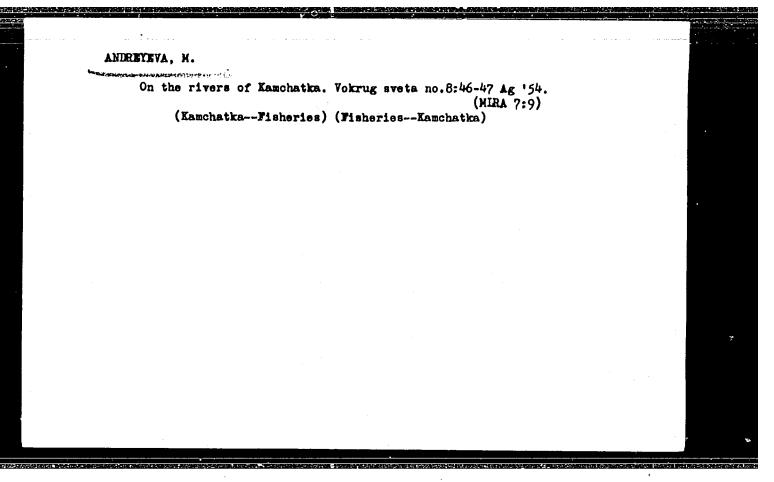
[Manual for a mechanical engineer in six volumes] Spravochnik mashinistroitelia v shesti tomakh. Red. sovet N.S.Acherkan i dr. Izd.3., ispr. i dop. Moskva, Mashgiz. Vol.3. 1962. 651 p. (MIRA 15:4)

1. Akademiya nauk USSR (for Serensen).
(Machinery-Design)

ANDREYEVA, M.; KHEYFETS, L.S.; GOL'SKAYA, I.F., inzh.-metodist; VODYANITSKAYA, Zh.I.; KOZHEVNIKOVA, E.I., starshiy nauchnyy sotrudnik; BLIDMAN, A.I.; VORONOV, B.V.

Exhibitions and displays. Inform. biul. VDNKH no.11:10-11,15-18, 26-27,31-32 N '63 (MIRA 18:1)

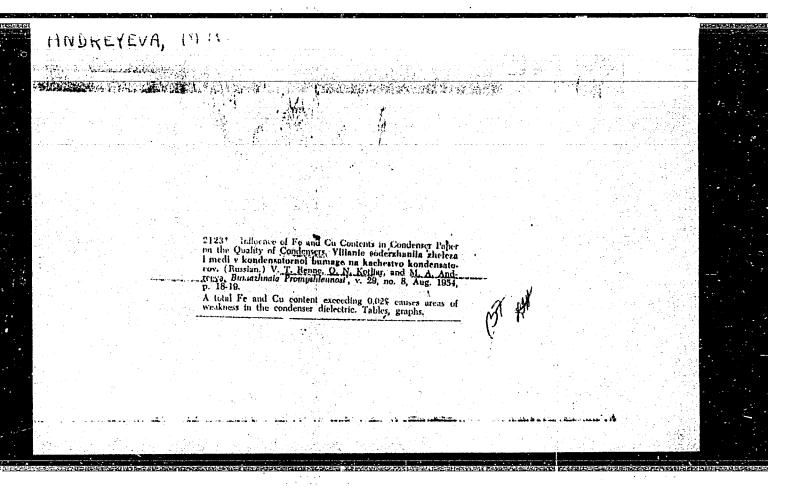
1.Starshiy ekskursovod pavil'ona "Khimicheskaya promyshlemnost'"
na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Andreyeva).
2. Glavnyy inzh. pavil'ona "Stroitel'nyye materialy" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kheyfets). 3. Pav'''on "Energeticheskoye stroitel'stvo" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Gol'skaya). 4. Direktor pavil'ona "Sel'skoye stroitel'stvo" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Vodyanitskaya). 5. Pavil(on "Sel'skoye stroitel'stvo" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kozhevnikova). 6. Starshiy inzh.-metodist po khraneniyu i pererabotke zerna pavil'ona "Khraneniye i pererabotka zerna" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Blidman). 7. Glavnyy metodist pavil'ona "Professional'notekhnicheskoye obrazovaniye" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Voronov).

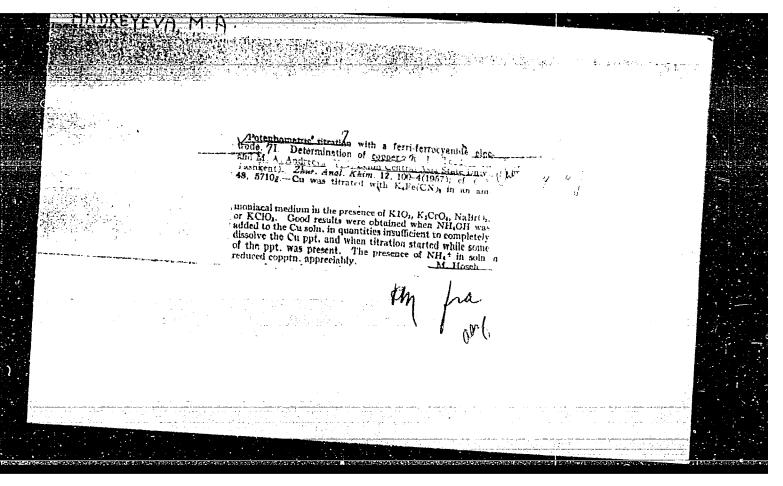


Allia Maria, II. A.

"The Installation of Sturdy Prostproof Linings on Reservoirs Constructed on Highly Filtering Quaternary Deposits in the Central Black-Earth Regions." Cand Geol-Min Sci, Noscow State U imeni M. V. Lomonosov, 3 Oct 54. (VM, 24 Jep 54)

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USSR / General Problems of Pathology. Experimental Treatment. U-5

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No. 47010

Author : Andreyeva, M. A.; Rozin, D. L.

Inst : Not given

Title : The Use of Radioactive Phosphorus for the Diagnosis of

Breast Tumors and Their Complications.

Orig Pub : Tr. 1-y Zakavkazsk. konferentsii po med. radiol. Tbilisi,

Gruzmedgiz, 1956, 273-279.

Abstract: The distribution of P32 was studied in 55 patients with malignant and benign tumors of the mammary gland. The

patients were treated with isotopes in the form of bisubstituted sodium phosphate in a dosis of 0.12 mu curie in a 40 percent glucose solution. The accumulation of

p32 in the afflicted mammary gland and in the symmetrically located area of the intact gland was determined

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USSR/CHEMISTRY - FRIEDEL-CRAFTS
REACTION
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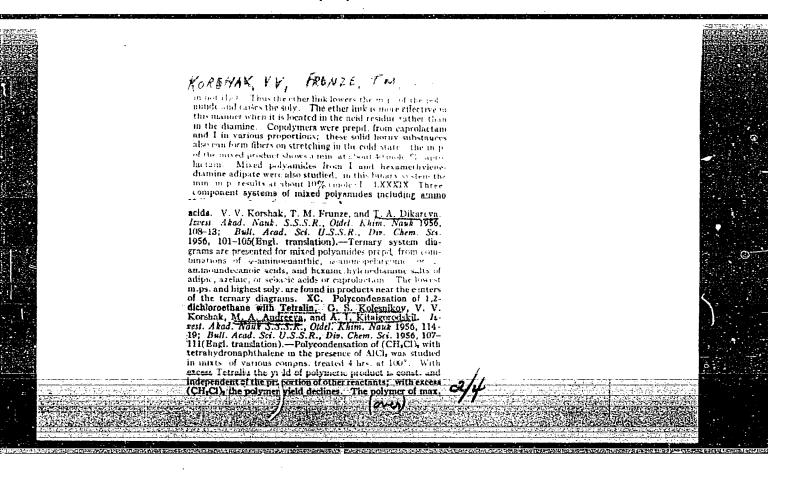
"Mechanism of the Friedel-Crafts Reaction: IX, The Reaction of Trichloroethylene Wigh Instimeni D. I. Mendeleyev, 5 3/4 pp

"Zhur Obshch Khim" Vol XIX, No 4

study of subject reaction in the presence of aluminum chloride shows that polynuclear products of the condensation are similar to those formed when 1, 1-diphenyle-2-they are diphonylmethane, triphenylmethane, and anthracens. Submitted 30 Dec 47.

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	ANDREYEVA, MA	er e	
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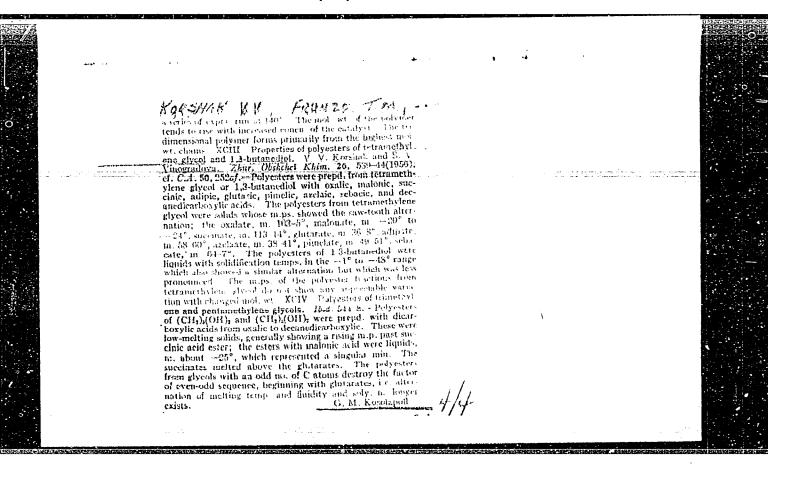
MORSHAN, V.V., FRONTE, 7, N., ...

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Transacylination of 1,2-diphenylshane at various temperatures. O. S. Neude Notice and V. V. Kornbak. Invist Akad.

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USSR/ Chemistry - Molecular compounds

Card 1/1 Pub. 40 - 20/25

Authors , Kolesnikov, G. S.; Korshak, V. V.; Andreyeva, H. A.; and Kitaygorodskiy, A. I.

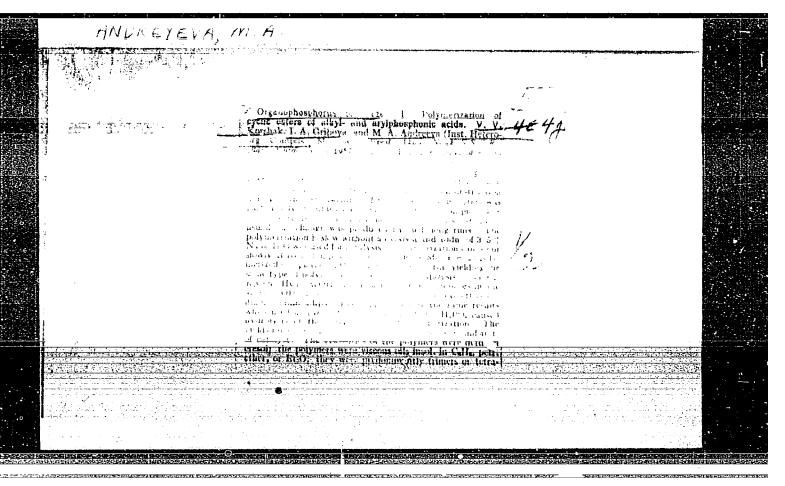
Title High molecular compounds. Part 90. Polycondensation of 1,2-dichlorosthane with tetralin

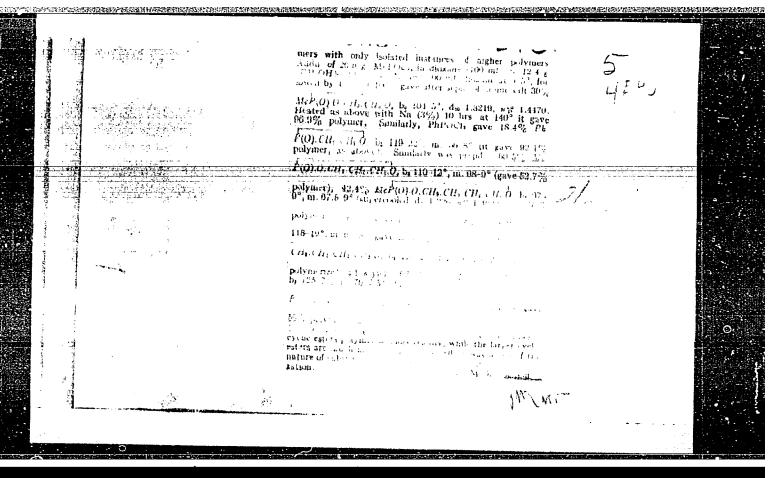
Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 114-119, Jan 1956

s The polycondensation of 1,2-dichloroethane with tetralin was investigated in the presence of aluminum chloride and the basic laws governing this polycondensation process were established. On the bris of x-ray analysis it was determined that 1,2-di-(beta-tetraly1) ethane is the product obtained during the initial polycondensation stages. The formation of three-dimensional polycondensation products was observed in spite of the fact that the potential function of tetralin is only 4. The effect of benzene-solution concentrations of polytetralylenethyl on the polymer molecule association is discussed. Seven references: 5 USSR and 2 Germ. (1921-1955). Tables; graph.

Institution : Acad. of Sc., USSR, Inst. of Organoelemental Compounds

Submitted : November 18, 1954





AUTHORS:

Korshak, V. V., Gribova, I. A.,

507/62-58-7-14/26

Andreyeva, M. A.

TITLE:

An Investigation Within the Field of Organophosphorus Polymers (Issledovaniye v oblasti fosfororganicheskikh polimerov) Communication 4: On the Polyesters of Some Phosphinic Acids and of Hydroquinone (Soobshcheniye 4. O poliefirakh nekotorykh fos-

finovykh kislot i gidrokhinona)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 7, pp 880 - 885 (USSR)

ABSTRACT:

Already earlier the authors showed that after the interaction between dichloranhydrides of the alkyl and aryl phosphinic acids with glycols in the presence of hydrogen chloride binding substances the formation of polymer esters takes place. In the present paper the authors describe the synthesis of polyesters of various phosphinic acids and of hydroquinone. It was found that the nature of the substituents at the phosphorus atom exerts a considerable influence on the properties of the polyesters. The introduction of an aromatic residue into the polymer chain leads to the production of solid products (in con-

Card 1/2

An Investigation Within the Field of Organophosphorus SOV/62-58-7-14/26 Polymers. Communication 4: On the Polyesters of Some Phosphinic Acids and of Hydroquinone

> trast to similar polymers being produced from aliphatic glycols). The polyesters produced were formed by the condensation of the chlorine anhydrides of the corresponding acids and of hydroquinone in the presence of metallic tin. The investigation of the binary system within the entire structural range (diapazon sostava) showed that a minimum of the melting temperature is exhibited by the copolymer (of a certain structure). There are 2 figures, 4 tables, and 7 references, 3 of which are Soviet.

CONTRACTOR AND PROPERTY OF THE PROPERTY OF THE

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR

(Institute of Elemental-organic Compounds AS USSR)

SUBMITTED:

December 21, 1956

Card 2/2.

STEPANOV, B.I.; ANDREYEVA, M.A.

Substitution of helogen into azo compounds. Part 3: Preparation of o-arylalkoxyaniline derivatives. Zhur.ob.khim. 28 no.9: 2490-2491 S 158. (MIRA 11:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imani D.I. Mendeleyeva.

(Aniline)

AUTHOUS:

Andreyeva, M. A., Stepanov, B. I.

507/79-28-11-14/55

TITLE:

On the Substitution of the Halogen in Azo Compounds (O zameshchenii galogena v azosoyedineniyakh) V.

Reaction of the Copper Complex of 2-Chloro-Benzene Azo-2'-Naphthol With Alcoholates (V. Vzaimodeystviye mednogo kompleksa 2-khlorbenzolazo-2'-naftola s alkogolyatami)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 11,

pp 2966 - 2967 (USSR)

ABSTRACT:

To explain the mechanism of the substitution of the halogen atoms in o-halogen-o'-oxy-azo dyes in the presence of copper salts (Ref 1) it was important to carry out this reaction using the complex compound of a halogen containing dye with copper and without the free copper salt. First the reaction of the copper complex of 2-chloro-benzene azo-2'-naphthol (the azo dye from 2-chloro-anilime and 2-naphthol) with alcoholates

of n.-butyl and benzyl alcohol was carried out. The copper complex of the chlorine containing dye was obtained according to Crippa (Krippa, Ref 2) in a somewhat modified form by the reaction with copper

Card 1/3

On the Substitution of the Halogen in Azo Compounds. SOV/79-26-11-14/55 V.Reaction of the Copper Complex of 2-Chloro-Benzene-Azo-2'-Naphthol With Alcoholates

ammonia solution on its heating in acetone instead of alcohol. According to the analysis this complex contains one copper atom per two dye molecules, and apparently has the mentioned structure (I). The reaction of the complex with sodium butylate and sodium benzylate in the solution of the corresponding alcohol was carried out at 100-1030 within 8 hours. From the reaction products dyes were separated that turned out to be the products of the substitution of the chlorine atom by the corresponding butoxy and phenyl methoxy group (94.3 and 95.0%). Thus, the chlorine atom in the copper complex was substituted practically quantitatively by the alkoxy groups in the presence of the free copper salt. The dyes were identified according to the melting point of the mixed sample with the corresponding alkoxy substituted dyes. There are 3 references, 2 Soviet references.

Card 2/3

CIA-RDP86-00513R000101410004-0 "APPROVED FOR RELEASE: 03/20/2001

On the Substitution of the Halogen in Azo Compounds. SOV/79-28-17 V. Reaction of the Copper Complex of 2-Chloro-Benzene-Azo-2'-Naphthol SOV/79-28-11-14/55 With Alcoholates

ASSOCIATION: Moskovskiy khimiko-, tekhnologicheskiy institut imeni D.I.Mendeleyeva (Moscow Chemotechnological Institute

imeni D.I.Mendeleyev)

SUBMITTED: August 31, 1957

Card 3/3

21 (0) ANDREYEVA, N.A.

CH1CON/28-3-5-6/20

AUTHOR:

V. V. Formin, S. P. Vorobev, M. A. Andreeva

TITLE:

The Investigation of Complex Plutonium Oxalates by the Polaro-

graphic Method

PERIOE CAL:

Yuan Tzu Nêng, 1958, Vol 3, Nr 5, pp 450-456

ABSTRACT:

The composition and stability of complex ions of tri-and tetravalent plutonium in oxalate solution were investigated by the authors using the polarographic method. The process is described. The ions of Pu $(C_2 O_4)_L^{-1}$ (predonderant) and Pu $(C_2 O_4)_L^{-5}$ were formed in potassium oxalate solution with pH 3.5-6. Pu*4 gave a well reverse reaction wave which is suitable for the quantitative determination of plutonium by the polarographic method. In 1M potassium oxalate solution, the oxidation-reduction potential of the above reaction is 0.205V (corresponding to a saturated calomel electrode at 25 C). At pH 6-8, the authors discovered that two Pu⁺⁴ complexes were simultaneously present. The authors determined the instability constants of Pu $(C_2 O_1)_1^{-5}$ from the data on the solubility of Pu $(C_2 O_4)_3$ and the polarographic method is: Kpu $(C_2 O_4)_4^{-5} = 2.4 \times 16^{-12}$, Kpu $(C_2 O_4)_3^{-3} = 2.2 \times 10^{-11}$,

Cará 1/2

ANDREYEVA, M. A.

AUTHORS:

Fomin, V. V., Vorobiyev, S. P., Andreyeva, M. A. 89-1-7/29

TITLE:

Investigation of Complex Plutonium Oxalate Compounds by the Polarographic Method (Izucheniya kompleksnykh oksalatev plutoniya

polyarograficheskim metodom).

PERI: DICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 57 - 62 (USSR).

ABSTRACT:

The composition and constancy for tri- and quadrivalent complex plutonium ions in oxalate solutions was determined by the polarographic method. In a solution of potassium oxalate with a pH value of from 3,5 to 6,0 mainly $[Pu(C_2O_{\downarrow\downarrow})_{\downarrow\downarrow}]$ and also $[Pu(C_2O_{\downarrow\downarrow})_{\downarrow\downarrow}]$

Conditions being as they are given, there exists for Pu+4 a well de= veloped reversible reaction wave, which suffices for the qualitative polarographic determination of plutonium.

The oxidation reduction potential for this reaction in a 1 M solum

tion of potassium oxalate is 0,205 V.

If the solutions have a pH value between 6 and 8, then two Pu+4 com-

plexes exist at one and the same time.

Card 1/2

From the data for the solubility of $[Pu(C_2O_{\downarrow})_3]$ the instability constants for the complex ions $[Pu(C_2O_{\downarrow})_3]^{-3}$ and $[Pu(C_2O_{\downarrow})_{\downarrow}]^{-5}$ and from

Card 2/2

ANDREYEVA, M. A. Cand Chem Soi -- (diss) "On the mobility of halogen in certain halogenoxyazo-compounds." Mos, 1959. 11 pp (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Lenin Chemicotechnological Inst im D. I. Mendeleyev), 150 copies (KL, 52-59, 116)

-14-

5(3) AUTHORS:

Stepanov, B. I., Andreyeva, M. A.

SCV/156-59-1-36/54

TITLE:

On the Substitution of Relegen Atoms in o,o-Dihalogen-o'-oxyazo-dyes (O zameshchemii atomov galogena v o,o-digalogen-

o'-oksiazokrasitelyakh)

PERIODICAL:

Hauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959, Nr 1, pp 141 - 142 (USSR)

ABSTRACT:

For the investigation into the mobility of halogen atoms in o-halogen-o'-oxy compounds (Refs 1,2,3), 2,6-dichlerobenzene-(1-azo-1')-naphthel-2', an azo-dye from 2,6-dichlero-aniline and 2-naphthol, was used as an initial substance. This o-oxyazo compound thus contained two halogen atoms in an ortho-position with regard to the azo-group. It was found that on the reaction of this substance with alcoholates (scdium-n-butylate) and phenolates (Ra-4-phenyl-phenolate) in the presence of copper salts a practically quantitative substitution by the respective alkexy- or phenoxy-group of the two halogen atoms takes place. This substitution occurs far more readily than it does in the analogous compounds containing only one halogen atom. The experimental part gives instructions

Card 1/ 2

KORSHAK, 7.V.; GRIBOVA, I.A.; ANDREYEVA, M.A...

Organophosphorus polymers. Part 8: Polyesters of phosphonic acids and of some aromatic dioxycompounds. Vysokom. soed. 1 no.6:825-828 Je 159. (MIRA 12:10)

1.Institut elementoorganicheskikh soyedineniy AN SSSR. (Polymers) (Phosphorus organic compounds)

5.3630 5.3330 81586 \$/190/60/002/03/05/05 B020/B066

AUTHORS:

Korshak, V. V., Gribova, I. A., Andreyeva, M. A.

TITLE:

Investigation in the Field of Organophosphorus Polymers. IX. Polycondensation of the Dichlorides of Phosphinic

Acids With Dioxy Compounds

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 3,

pp. 427-432

TEXT: The objective of the present paper was an investigation of the influence of various factors upon the polycondensation of the dichlorides of phosphinic acids with dioxy compounds as well as a kinetic investigation of this reaction which proceeds according to the scheme

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Card 1/4

Investigation in the Field of Organophosphorus Polymers. IX. Polycondensation of the Dichlorides of Phosphinic Acids With Dioxy Compounds 81586 \$/190/60/002/03/09/01/ B020/B066

glycol, diethylene glycol, and triethylene glycol) upon polycondensation with dichlorides of phosphinic acids. The polyester yield was found to increase. Fig. 3 shows the influence of the reaction temperature of methyl phosphinic acid dichloride with hydroquinone upon the yield and reduced viscosity of the polyester. A considerable effect on the reaction rate is exerted by the reaction temperature and the concentration of the initial reagents. Fig. 4 is a graphical representation of the degree of completeness of the reaction of methyl phosphinic acid dichloride, and Fig. 5 shows the temperature dependence of the reaction rate constants of methyl phosphinic acid dichloride with hydroquinone and diethylene glycol. The reaction rate constants are given in Table 2. The conditions of the reaction of methyl phosphinic acid dichloride with hydroquinone and the results obtained from this reaction are represented in Table 3. There are 5 figures, 3 tables, and 9 references: 6 Soviet, 2 British, and 1 Dutch.

Card 3/4

S/079/60/030/04/69/080 B001/B011

AUTHORS:

Andreyeva, M. A., Stepanov, B. I.

TITLE:

On the Substitution of Halogen in Azo Compounds. IX. Influence of the Position of Halogen and of Nucleophilic Substituents, and of the Nature of Nucleophilic Substituents

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1350-1356

TEXT: With a view to determined the limits of applicability of the substitution of the halogen atom in azo compounds, the authors of the present paper carried out the reaction of n.-sodium butylate with chlorine-containing azo a compounds in the presence of copper salts differing by the position of the chlorine atom and of the nucleophilic substituents in relation to the azo group, and also by the character of nucleophilic substituents. The substitution of the halogen atom in azo compounds was found to take place only in the case of the vicinity (ortho-position) of the halogen atom and of the nucleophilic substituents to the azo group, as well as in the presence of a mobile hydrogen in the structure of the nucleophilic substituent. The reaction is the easier, the easier hydrogen is replaced by metal. It was found that

Card 1/2

On the Substitution of Halogen in Azo Compounds. S/079/60/030/04/69/080 IX. Influence of the Position of Halogen and of B001/B011 Nucleophilic Substituents, and of the Nature of Nucleophilic Substituents

the halogen atom in azo dyes can be replaced by arylides of \(\beta\)-keto acids and amines as the azo components. The halogen atom was found to be replaced by the alkoxy group on the reaction of the copper complex of o-halogen-o'-amino dye with alcoholates, without free copper salt. On heating the azo dye, which contains a methoxy group in the naphthalene ring in the ortho-position to the azo group, with sodium butylate in the presence of a copper salt, the methyl residue in the ester group is replaced by the butyl group. There are 2 tables and 12 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I.

Mendeleyeva (Moscow Institute of Chemical Technology imeni
D. I. Mendeleyev)

SUBMITTED: March 14, 1959

Card 2/2

STEPANOV, B.I.; ANDREYEVA, M.A.

Substitution of the halogen in azo compounds. Part 11: Significance of certain space factors. Zhur.ob.khim. 30 no.8:2748-2754 Ag '60. (MIRA 13:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

(Azo compounds) (Substitution (Chemistry))

ANDREYEVA, M.A.; STEPANOV, B.I.

Substitution of the halogen in azo compounds. Part 12: Influence of the nature of the halogen. Zhur.ob.khim. 30 no.8:2768-2771 Ag '60. (MIRA 13:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

(Azo compounds) (Substitution (Chemistry))

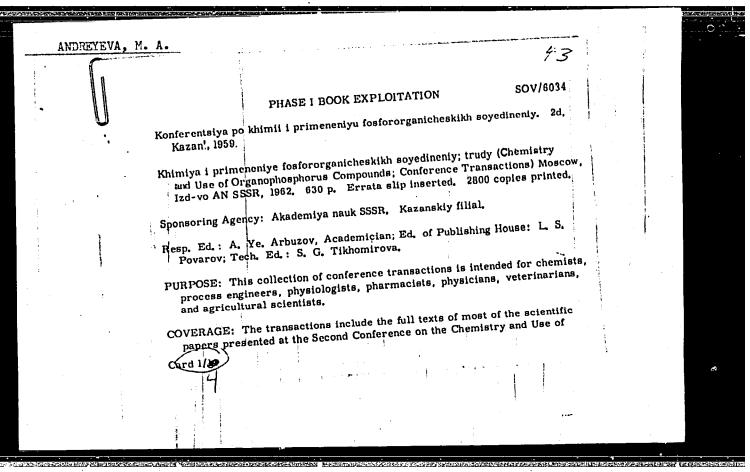
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KORSHAK, V.V., GRIBOVA, I.A., ANDREYEVA, M.A.

Research in the field of phosphorus-containing polyesters.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry sıxl application of organophosphorus compounds) A. YE. ARRWAY, Ed. Publ. by Kazar Affil. Acad. Bei. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.



43 Chemistry and the Use of Organophosphorus (Cont.) SOV/6034 Organophosphorus Compounds held at Kazan' from 2 Nov through 1 Dec 1959. . The material is divided into three sections: Chemistry, containing 67 articles; Physiological Activity of Organophosphorus Compounds, containing 26 articles; and Plant Protection, containing 12 articles. The reports reflect the strong interest of Soviet scientists in the chemistry and application of organophosphorus compounds. References accompany individual reports. Short summaries of some of the listed reports have been made and are given below. TABLE OF CONTENTS:[Abridged]: 3 Introduction (Academician A. Ye. Arbuzov) TRANSACTIONS OF THE CHEMISTRY SECTION Gefter, Ye. L. [NII plastmass (Scientific Research Institute of Plastics, Moscow]. Some Prospects for the Industrial Use of Organophosphorus Compounds Card 2013

Chemistry and the Use of Organophosphorus (Cont.)

SOV/6034

triorganosilanols (R, SiOH) with acids of phosphorus under conditions of azeotropic distillation of water in the presence of inert solvents. Another is based on the interaction of triorganosilanes with orthophosphoric and methylphosphonic acids in the presence of active colloidal nickel.

Korshak, V. V., I. A. Gribova, and M. A. Andreyeva [Institut elementoorganicheskikh soyedineniy (Institute of Organoelemental Compounds, Academy of Sciences USSR, Moscow)]. Study of Phosphorus-Containing Compounds

242

The polycondensation of dichlorides of phosphonic acids with diols has been studied by following the interaction of methylphosphonic dichloride with hydroquinone in a nitrobenzene solution at a temperature of 140 to 170°C. The properties of polyesters of phosphonic acid have also been studied.

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AUTHORS:

Korshak, V. V., Gribova, I. A., Andreyeva, M. A.

TITLE:

Study in the field of phosphorus-containing polyesters

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1962, 817, abstract 23R60 (In collection: Khimiya i primeneniye fosfororgan. soyedineniy. N., AN SSSR, 1962, 242 - 246)

TEXT: Phosphorus-containing polymers (PM) with heterogeneous chains were synthesized by polycondensation of methyl phosphinic dichloride (I) with aliphatic and aromatic dihydroxy compounds. The second-order reaction occurs between (I) and hydroquinone (in nitro-benzene at 140 - 170°C), (I) and diethylene glycol (in dichloro ethane at 40 - 80°C) with activation energies of 10.5 ± 0.7, and 7.5 ± 1.0 kcal/mole, respectively. Yield and molecular weight of PM increase considerably with increasing temperature. The formation of cyclic esters occurs as a side reaction, mainly in the case of the lower glycols. Based on aliphatic glycols, the PM are thick and viscous liquids; in the case of aromatic dihydroxy compounds, they are solid transparent substances. The PM are soluble in CHCl₃, dichloro ethane, and

Card 1/2

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Andreyeva, M. A., Gribova, I. A., Kabachnik, M. I., Kolesnikov, G. S., Korshak, V. V., Medved', T. Ya.,

Polikarpov, Yu. M., Rodionova, Ye. F., Fedorova, L. S.

TITLE:

AUTHORS:

Some methods of synthesizing new organophosphorus monomers

and polymers

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 23, 1962, 816, abstract 23R58 (In collection: Khimiya i primeneniye fosfororgan. soyedineniy. M., AN SSSR, 1962, 263 - 271)

TEXT: This is a review of the authors' papers on synthesizing vinyl compounds of quinquevalent P and polymers based on them. Syntheses of various derivatives of vinyl phosphinic and vinyl thiophosphinic acid, and of diethyl vinyl phosphinic oxide, have been described. The production of some new phosphorus-containing polymers and copolymers with carbo-chains and [Abstracter's note: heterogeneous chains is described. 13 references. Complete translation.

Card 1/1

ANDREYEVA, M.A., GRIHOVA, I.A., KABACHNIK, M.I., KOLESNIKOV, G.S., KORSHAK, V.V., MEDVED', T.YA., POLIKARPOV, YU.M., RODIONOVA, YE.F., FEDOROVA, L.S.

"Some means of synthesizing new organophosphorus monomers and polymers."

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds) A. YE. AREU70V, Ed. Publ. by Kazar Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazam Conference on Chemistry of Organc hosphorus Compounds.

Stepanov, B.I.; vorob'yeva, I.I.; andreyeva, M.A. Substitution of halogen in azo compounds. Part 14: Substitution of chlorine in the azo dye of 3-chloro-3-aminoanthraquinone and 2-naphthol. Zhur.ob.khim. 32 no.l0:3281-3283 0'62. (MIRA 15:11) 1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. (Azo dy.s) (Chlorine) (Substitution (Chemistry))

ANDREYEVA, M.A.; VOROZHTSOV, N.N., mladshiy; KRIZHECHKOVSKAYA, N.I.; STEPANOV, B.I.; YAKOBSON, G.G.

Substitution of halogen in azo compounds. Part 17:
Reactions of polyhaloazo compounds. Using the reaction
for establishing the structure of some aromatic
halogen-containing compounds. Zhur.ob.khim. 33 no.3:988-991
Mr 163. (MIRA 16:3)

l. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva i Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Azo compounds) (Halogen)

KORSHAK, V.V.; GRIBOVA, I.A.; ANDRETEVA, H.A.

Phosphorus-containing thermosetting resins. Plast.massy no.10:
11-12 '63.

(MIRA 16:10)

STEPANOV, B.I.; ANDREYEVA, M.A.

Interaction of 2-chlorobenzene-(1-azo-1')-2'-naphthol with fluorene. Zhur. VKHO 8 no.5:577 '63. (MIRA 17:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

ANDREYEVA, M. A.

Dissertation: "On the Changes in the Degree of Dispersion of Solutions Obtained by Means of Colloid Solvents." Cand Chem Sci, State Sci Res Inst of Roentgenology and Radiology, Baku 1953

SO: Referativnyy Zhurnal, No. 5, Dec. 1953, Moscow, AN USSR (1239555)

USSR/Chemistry - Analytical chemistry

Card 1/2

Pub. 147 - 11/22

Authors

Pomin, V. V.; Fedotova, L. N.; Sin'kovskiy, V. V., and Andreyeva, M. A.

Title

s Study of cadmium chloride complexes by means of anionites

Periodical : Zhur. fis. khim. 29/11, 2042-2047, Nov 1955

Abstract

A new method for the determination of stability constants of complex anions by means of anions, provided the solution contains one complex ion and complex cations and molecules, is described. The method is based on the application of the effective mass law to the ion exchange. It is shown that the distribution of Cd between the anionite and the potassium chloride-solution-at-an-ion-force-close-to-one-corresponds-to-a-certain-

Institution :

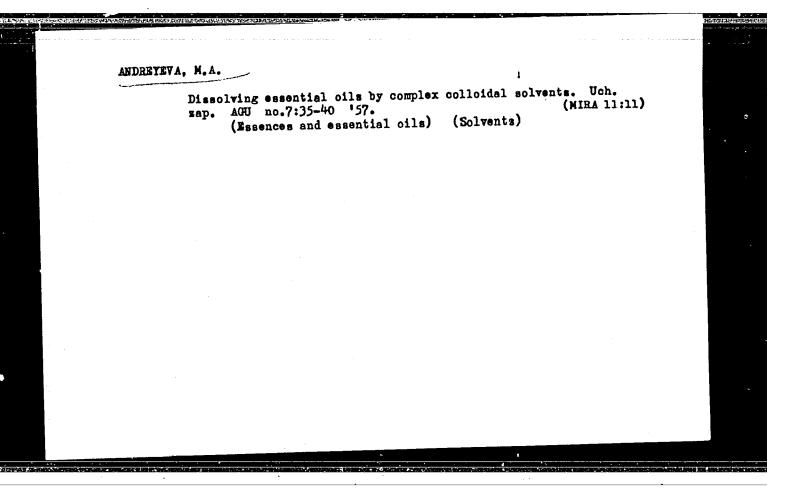
Submitted .

: February 25, 1955

Card 2/2 Pub. 147 - 11/22

Periodical: Zhur. fis. khim. 29/11, 2042-2047, Nov 1955

Abstract: equation for stability constants of complex Cd-ions. The complexity in retaining a constant ion force during changes in concentrations of ions participating in the complex formation is the main difficulty of the new method. Twenty references: 8 USA, 7 USSR, 1 Ital., 3 Scand., and 1 Germ. (1937-1953). Tables.



15.8110

323\170/62/004/001/009/020 B101/B110

AUTHORS:

Korshak, V. V., Gribova, I. A., Andreyeva, M. A., Popova,

G. M.

TITLE:

Polymers containing phosphorus. XXVII. Heterochained

polyesters of vinyl phosphinic acid with some dihydroxy

compounds

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 1, 1962, 58-63

TEXT: The authors report on the properties of esters of diethylene glycol (I) and 4,4'-dihydroxy-2,2-diphenyl propane (II) with mixtures of vinyl and methyl phosphinic acids. The syntheses of these esters have already been described (Vysokomolek. soyed., 2, 427, 1960; Izv. AN SSSR, Otd. khim. n., 1958, 880). Esters with I are colorless, viscous liquids. Their freezing point drops from -39°C (100% CH₃POCl₂) to -51°C with 100% CH2=CHPOCl2 in the initial mixture. Esters with II are transparent, brittle solids soluble in dichloro ethane, chloroform, and tricresol, insoluble in ethor, benzene, and dioxane. Their softening points drop from 55-56°C to Card 1/2

32347 8/190/62/004/001/009/020 B101/B110

Polymers containing phosphorus.

41-42°C (= 100% vinyl phosphinic acid) as the content of vinyl phosphinic acid increases. Structurization of the ester of I (in sealed ampuls, N_2 atmosphere, at 60°C for 15 hrs, or in an open test tube and in $C_2H_4Cl_2$ solution) by benzoyl peroxide, tert-butyl peroxide, azoisobutyric dinitrile, tert-butyl hydroperoxide, or cumene hydroperoxide, only occurred with a vinyl phosphinic acid content \geq 40% (gelatinous substances, softening points: 150-200°C the latter value with 100% CH_2 =CHPO-). Esters with II could not be structurized under the experimental conditions, applied. There are 2 figures, 4 tables, and 4 Soviet references.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniye AN SSSR (Institute of Elemental Organic Compounds AS USSR)

SUBMITTED:

January 28, 1961

Card 2/2

L 12725-63 EPF(c)/EWF(1)/EWT(m)/EDS ASD Pr-4/Pc-4 RM/WW ACCESSION NR: AP3002291 S/0062/63/000/006/1095/11.00

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AUTHOR: Korshak, V. V.; Gribova, I. A.; Andreyeva, M. A.

4

TITLE: Research on organophosphorous polymers. Report 28. Transesterification of dialkyl esters of phosphinic acids with various glycols of

SOURCE: AN SSSR. Izv. Otdeleniye khimicheskikh nauk, no. 6, 1963, 1095-1100

TOPIC TAGS: transesterification, organophosphorous polymers, dialkyl ester phosphinic acid, dibutyl methanephosphinate, dimethyl methanephosphinate, eicosamethylene glycol

ABSTRACT: Dibutyl and dimethyl methanephosphinate were synthesized from the acid chloride and transesterified with diethylene, hexamethylene, and eicosamethylene glycol. A number of acidic and basic catalysts were tried. Metallic sodium gave the best results. The effect of variations in temperature and length of heating was studied. At the temperature required for the reaction to proceed, some decomposition, contaminating the product with an acidic impurity, was unavoidable. The products obtained with diethylene and hexamethylene glycol are dense, viscous liquids composed mainly of trimers and tetramers, soluble in chloroform, crescl, and acetic acid, and insoluble in benzene, dichloroethane, carbon tetrachloride,

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ACCESSION NR: AP3002291

ether, and petroleum ether. In the reaction of the dibutyl ester with eicosamethylene glycol, a mixed monomeric ester was obtained. Orig. art. has: 4 tables.

ASSOCIATION: Institut elementoorganicheskhikh soyedineniy Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences SSSR)

SUBMITTED: 29Jun62

DATE ACQ: 16Jul63

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NO REF SOV: 009

OTHER: 001

Card 2/2

ACCESSION NR: AT4033994

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AUTHOR: Korshak, V.V.; Gribova, I.A.; Andreyeva, M.A.; Kabachnik, M.I.; Medved', T. Ya.

TITLE: Polymers containing phosphorus. XXIX. Heterocyclic polyesters of vinly-phosphinio acid and some glycols

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain macro-molecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 117-122

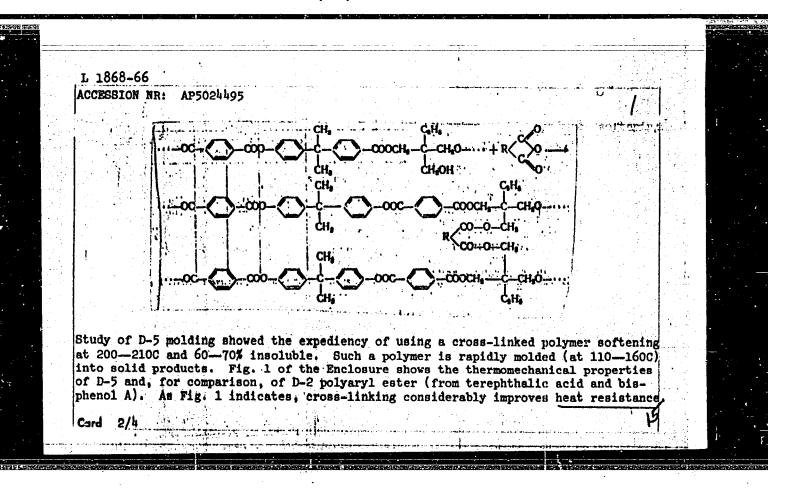
TOPIC TAGS: vinylphosphinic acid, ethylene glycol, propylene glycol, diethylene glycol, trimethylene glycol, butylene glycol, polymer, cyclic polyester, polymerization, polymerization catalyst, metallic sodium, linear polymerization, radical polymerization, benzoyl peroxide, tert.-butyl peroxide, tert.-butyl hydroperoxide

ABSTRACT: The authors synthesized the cyclic esters of vinylphosphinic acid (I) and ethylene glycol (II), 1,2-propylene glycol (III), trimethylene glycol (IV), 1,4-butylene glycol (V) or diethylene glycol (VI) and determined some of their physicochemical properties (see Table 1 in the Enclosure). These esters were then polymerized linearly in the presence of water (3% by weight, 140C, from 15 hours for III to 83 hours for VI).

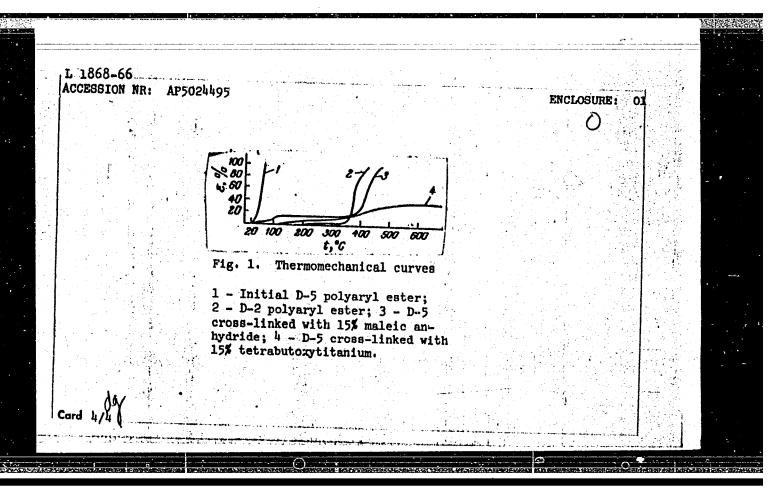
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L 1868-66 _EPA(s)-2/EWT(m)/EPF(c)/EWP(j) ACCESSION NR: AP5024495 AUTHOR: Vinogradova, S. V.; Andreyeva, M. A.	UR/0191/65/000/010/0001/0003 678.673.4:678.029.44 6 4//
TITLE: Study of the feasibility of curing an esters into end products	d converting thermosetting polyaryl
SOURCE: Plasticheskiye massy, no. 10, 1965, TOPIC TAGS: polyaryl ester, heat resistant p	THE WASTER TO SEE THE STATE OF THE SECOND
ABSTRACT: A study has shown that unfilled or ester can be processed into end products by m chloride, bisphenol A, and l,l,l-trimethylolp cross-linked (38% insoluble in chloroform) at linking by various curing agents revealed that lene-1,2,3,6-tetrahydrophthalic)anhydrides or sults. Cross-linking occurs as follows:	rolding. D-5, prepared from terephthaloyl propane (1/0.5/0.5 molar ratio), is partly the outset. Study of further cross.
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EWT(m)/EPF(c)/EWP(j)/T/ETC(m) L 2324-66 WW/RM ACCESSION NR: AP5022222 UR/0191/65/000/009/0016/0019 678.673,01:536.495:537.311 AUTHOR: Vinogradova, S. V.; Korshak, V. V.; Fridman, Ye. I Andreyeva, M. Raraboshkina, L. N. 44,55 Heat-resistant electroinsulating TITLE: polyarylate plantic material B SOURCE: Plasticheskiye massy, no. 9, 1965, 16-19 TOPIC TAGS: plasticizer, heat resistant plastic, heat resistant material, polyaryl plastic, terephthalic acid, electric insulator, plastic, heat resistance, polyarylate, phenolphthalein, bisphenol A, isophthalic acid, softening point ABSTRACT: The possibility of preparing heat-resistant plastics suitable for electric insulators and capable of being compression molded was studied by preparing neat and mixed compositions from phenolphthalein is athalate or terephthalate based polyarylates (i.e., aromatic polyesters). It was also attempted to prepare polymers which had to be kept at their melting temperature during compression molding for a minimum time. Thus, powdered poly(phenolphthalein isophthalate) could be compression molded at 270-300C into semitransparent light-brown samples of plastic designated as F-1, 12 while the poly(phenolphthalein terephthalate), designated as plastic F-2, cracked Cerd 1/2

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L 2324-66 ACCESSION NR: AP5022222 and disintegrated after being taken out of the molds. The addition of plasticizers, "Sovol" [biphenol dichloride], a polysiloxane and some other polyarylates based on either bisphenol A or phenolphthalein sebacate, made it possible to prepare compression molded samples from F-2 with softening points from 255 to 340C. The addition of Sovol in varying amounts or the same polysiloxane to F-1 produced plastics with softening points between 250 and 2850. Even the sample with 10% Sovol still had a softening point of 230C, which was considered to be sufficiently high, combined with good workability of the material. The introduction of fillers (up to 40% by weight of the composition) was also studied for the purpose of reducing cracking of the plastic and to save polymer materials. Good results were obtained with quartz flour or talcum, while aluminum oxide or silica gel were ineffective. The filled F-2 polyarylate samples were resistant to thermal shock; they withstood repeated sharp temperature change from -60 to 250C. The polyarylate compositions obtained had high dielectric properties in a rather wide range of temperatures. Orig. art. has: 4 figures and [BN] 4 tables. ASSOCIATION: none SUB CODE: ENCL: BUBMITTED: ATD PRESS: OTHER: 000 no ref sov: 004 Card 2/2 /2

OFENGENDEN, N.Ye.; SVYATSKAYA, M.T.; ANDREYEVA, M.F.

Crushing of coal caused by hydraulic mining and conveying. Sbor.DonUGI no.22:69-90 '61. (MIRA 15:6)

(Hydraulic mining)

SVYATSKAYA, M. G.; ANDREYEVA, M. F.; SHALYGINA, V. T.

Clarification of slime waters. Sbor. DonUGI no 22:121-128 '61. (MIRA 15:6) (Coal preparation plants--Equipment and supplies)

SOV/120-58-2-14/37

AUTHOR: Andreyeva, M. G.

TITLE: Application of an Electron Multiplier to Increase the Sensitivity of a Mass Spectrometer (Primeneniye elektronnogo umnozhitelya dlya povysheniya chuvstvitel'nosti mass-spektrometra)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 2, pp 53-56 (USSR)

ABSTRACT: In a number of studies it is necessary to carry out mass spectrometric analysis with very small amounts of material so that the usual sensitivity (10-14 - 10-15 amp) is insufficient. Recently, various methods of recording mass spectrometric ion beams have been devised, using Geiger counters, photoelectron multipliers, ionisation chambers, and electron multipliers as DC amplifiers or ion counters. In the present work, in order to increase the sensitivity of the mass spectrometer MS-3, an electron multiplier was used, particular attention being paid to the method of counting. An eleven stage electron multiplier with beryllium bronze electrodes was used. The multiplier was specially activated and worked with a negative voltage of 4.3-4.5 kv on the first electrode. The energy of the ions detected by the multiplier was 6.8-7 kev. The block diagram of the recording apparatus is shown